

REMARKS

In the above-mentioned Office Action, all of the pending claims, claims 1-20, were rejected. Claims 1-3, 8-9, 11-16, and 18 were rejected under §102(e) over Chen. Claims 4-5, 10, and 17 were rejected under §103(a) over Chen. Additionally, claims 1-15 were rejected under §112, first paragraph, for reciting a single means claim. And, claim 11 was rejected under §112, second paragraph, for being indefinite for including recitations that lack antecedent basis. Additional objection was made to claim 5 for an informality and to a missing reference number in Figure 1 of the drawings.

Responsive to the rejections of the claims, the claims have been amended in manners believed better to distinguish the invention of the present application over the cited reference used to reject the claims and to overcome the rejections under §112.

With respect to independent claim 1, the claim has been amended now to recite both a coordinate interleaver and a controller. And, claims 5 and 11 have been amended in manners believed to overcome the Examiner's objection to claim 5 and to overcome the §112, second paragraph, rejection of claim 11.

Further with respect to exemplary claim 1, the recitation of the coordinate interleaver has been amended, now to recite that the coordinate interleaver is adapted to receive data symbols having real and imaginary coordinates. And, the coordinate interleaver is recited to interleave coordinates of the data symbols in manners such that, for selected data symbol, a real coordinate is interleaved with a real coordinate of a first

data symbol and an imaginary coordinate is interleaved with an imaginary coordinate of an other-than-first data symbol. And, a controller is recited that causes operation of the coordinate interleaver when a channel condition is poorer than a selected threshold.

Independent claim 16 has been analogously amended.

Support for the amendments to claims 1 and 16 can be found, for instance, on page 13, lines 1-13 and on page 11, lines 5-19.

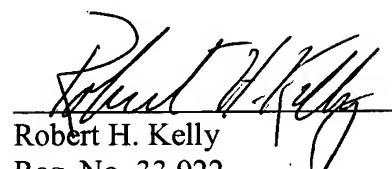
Chen fails to disclose such structure, or corresponding method. Namely, Chen fails to disclose coordinate interleaving, as now recited. In particular, there is no disclosure in Chen of interleaving a real coordinate of a data symbol with a real coordinate of a first data symbol and interleaving an imaginary coordinate with an imaginary coordinate of an other-than-first data symbol.

As the remaining ones of the dependent claims include all of the limitations of their respective parent claims, these claims are believed to be patentably distinguishable over the cited reference for the same reasons as those given with respect to their parent claims. Accordingly, reexamination and reconsideration for allowance of the claims is respectfully requested.

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Respectfully submitted,

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Robert H. Kelly
Reg. No. 33,922

SCHEEF & STONE, L.L.P.
5956 Sherry Lane, Suite 1400
Dallas, Texas 75225
Telephone: (214) 706-4201
Fax: (214) 706-4242
robert.kelly@scheefandstone.com